Quick Start

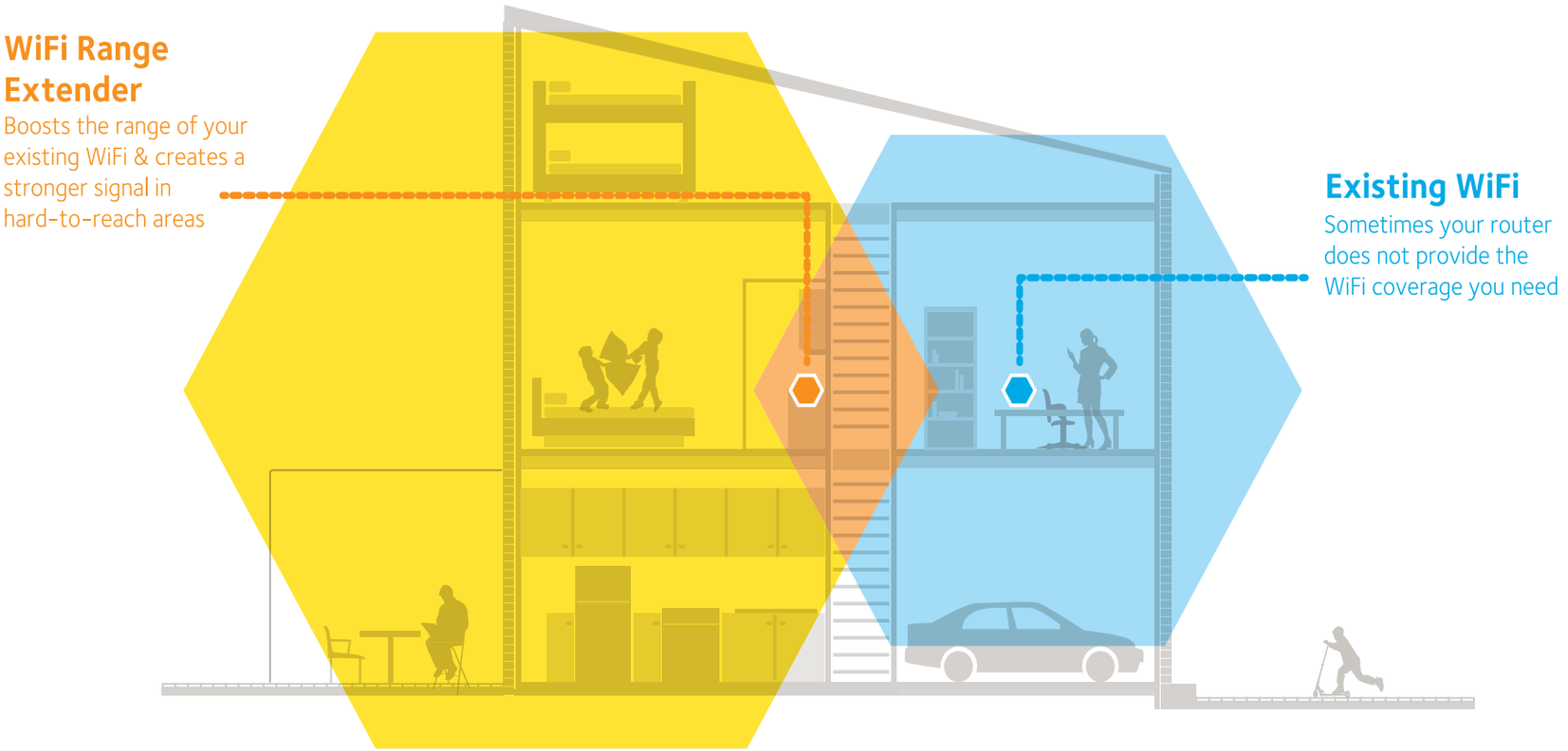
N300 WiFi Range Extender

Model WN3100RPv2

NETGEAR®

Getting Started

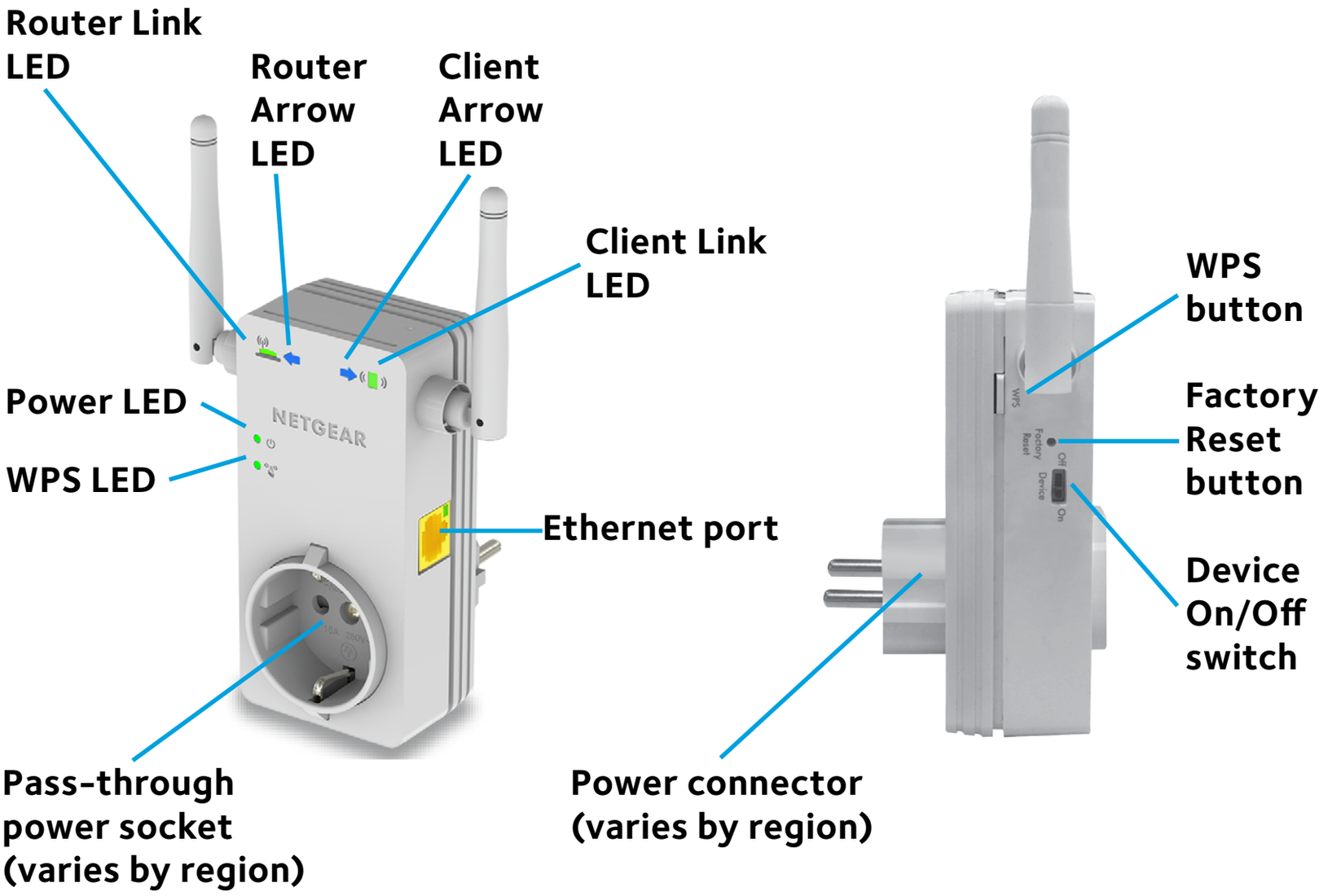
The NETGEAR WiFi Range Extender increases the distance of a WiFi network by boosting the existing WiFi signal and enhancing the overall signal quality over long distances. An extender repeats the signals from an existing WiFi router or access point.


WiFi Range Extender
Boosts the range of your existing WiFi & creates a stronger signal in hard-to-reach areas
Existing WiFi
Sometimes your router does not provide the WiFi coverage you need

Meet Your Extender

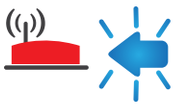
Before you install your extender, familiarize yourself with its LEDs, buttons, and port.

Hardware Features



LED Descriptions

Router Link LED	This LED indicates the connection between the extender and the router or access point. **Solid green**. Best connection. **Solid ambe**r. Good connection. **Solid red**. Poor connection. **Off**. No connection.
Client Link LED	This LED indicates the connection between the extender and a computer or WiFi device. **Solid green**. Best connection. **Solid amber**. Good connection. **Solid red**. Poor connection. **Off**. No connection.
Power LED	**Solid amber**. The extender is booting. **Solid green**. The extender is powered on. **Off**. The extender is powered off.
WPS LED	**Solid green**. WiFi security is enabled (WPA or WPA2). **Blinking green**. A WPS connection is in progress. **Off**. WiFi security is not enabled.

Note: If the Router Arrow LED  or Client Arrow LED blinks, see *Find the Best Location* on page 10. If no arrow LEDs light, the extender is in a good location.

Use the Extender in Extender Mode

Place the extender, apply power, and connect it to your WiFi network.

Place the Extender and Apply Power

1. Place your extender in the same room as your WiFi router.

   Proximity to the WiFi router is required only during the initial setup process.

2. Plug the extender into an electrical outlet.

   Wait for the Power LED ● ⏻ to light amber and then turn green. If the Power LED does not light, slide the **Device On/Off** switch on the side of the extender to the **On** position.

Connect to an Existing WiFi Network

To extend the range of your WiFi network, you must connect the extender to your existing WiFi network. You can do this in one of two ways:

- **Connect with WPS**. For more information, see *Connect with WPS* on page 6.
- **Connect with web browser setup**. For more information, see *Connect with Web Browser Setup* on page 8.

Connect with WPS

Wi-Fi Protected Setup (WPS) lets you join a secure WiFi network without typing the network name and password.

Note: WPS does not support WEP network security. If you are using WEP security, follow the instructions in *Connect with Web Browser Setup* on page 8.

1. Press the **WPS** button on the side panel of the extender.

   The WPS LED ● blinks.

2. Within two minutes, press the **WPS** button on your router or access point.

   The WPS LED on the extender lights solid green, the Router Link LED lights, and the extender connects to your existing WiFi network.

   If the Router Link LED does not light, try again. If it still does not light, see *Connect with Web Browser Setup* on page 8.

3. Find the new extender network name on your computer or WiFi device.

   The extender's wireless network name (SSID) changes to your existing WiFi network name, with _EXT at the end of the name, for example:

   - **Existing WiFi network name**. MyNetworkName
   - **New extended network name**. MyNetworkName_EXT

4. Connect your computer or WiFi devices to the new extended WiFi network.

   Use the same WiFi password that you use for your WiFi router.

5. Unplug the extender and move it to a new location closer to the area with a poor WiFi signal.

   The location that you choose must be within the range of your existing WiFi router network.

6. Plug the extender into an electrical outlet.

   Wait for the Power LED ● ⏻ to light amber and then turn green. If the Power LED does not light, slide the **Device On/Off** switch on the side of the extender to the **On** position.

7. Use the Router Link LED on the front panel to help you choose a spot where the extender-to-router connection is optimal.

Connect with Web Browser Setup

1. Use a WiFi network manager on a computer or WiFi device to find and connect to the NETGEAR_EXT (SSID) WiFi network.

   After the connection with the computer or WiFi device is established, the Client Link LED lights.

2. Open a web browser window from the same computer or WiFi device.

   The browser takes you directly to the extender login screen. If you are not automatically directed to login screen, enter **www.mywifiext.net** in the address field.

   The login screen displays.

3. Click the **NEW EXTENDER SETUP** button.

   The Create Account screen displays.

4. Complete the fields on the Create Account screen and click the **NEXT** button.
5. Select your country or region from the **Regional Settings** menu and click the **NEXT** button.
6. Click the **WIFI RANGE EXTENDER** button.
7. Select a WiFi network to extend and click the **NEXT** button.
8. Type the existing WiFi network password (also called passphrase or security key) in the **Password (Network Key)** field and click the **NEXT** button.

9. Set the network name (SSID) and password for your new extender WiFi network and click the **NEXT** button.
10. Use a WiFi network manager on the computer or WiFi device to connect to the new extended WiFi network.

    Repeat this step for all of your computers and WiFi devices.

11. Click the **CONTINUE** button.

    A message displays confirming that the extender is connected to the new extended WiFi network.

12. Click the **NEXT** button.

    The registration screen displays.

13. Complete the registration fields and click the **FINISH** button to complete the setup.
14. If you do not want to register your extender, click the **Skip Registration** link.

    Note that you must register your extender before you can use NETGEAR telephone support.

    The Status screen displays.

15. Unplug the extender and move it to a new location closer to the area with a poor WiFi signal.

    The location that you choose must be within the range of your existing WiFi router network.

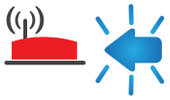
16. Plug the extender into an electrical outlet.

    Wait for the Power LED ● ⏻ to light amber and then turn green. If the Power LED does not light, slide the **Device On/Off** switch to the **On** position.

    Use the Router Link LED to help you choose a spot where the extender-to-router connection is optimal.

Find the Best Location

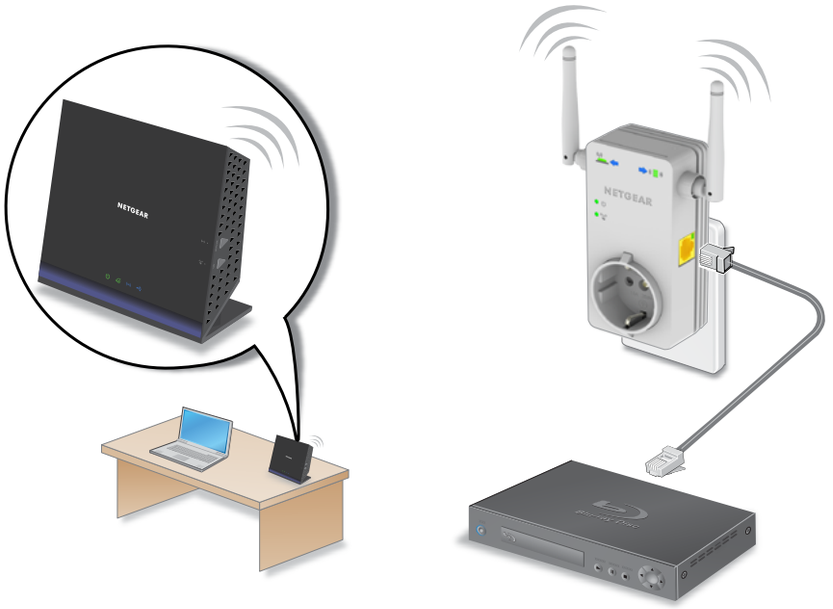
If the WiFi signal is weak, the first time you join the extender network, an arrow LED blinks for two minutes. If this happens, adjust the position of the extender.

- If the Router Arrow LED  blinks, move the extender closer to the router.
- If the Client Arrow LED blinks, move the computer or WiFi device closer to the extender.

If no arrow LEDs are lit, the extender is in a good location.

Connect an Ethernet-Enabled Device

After the extender is connected to your existing WiFi network, you can connect a wired device to the extender using an Ethernet cable. That device can then access your existing network through the WiFi connection.



1. Set up the extender.

   For more information, see *Place the Extender and Apply Power* on page 5.

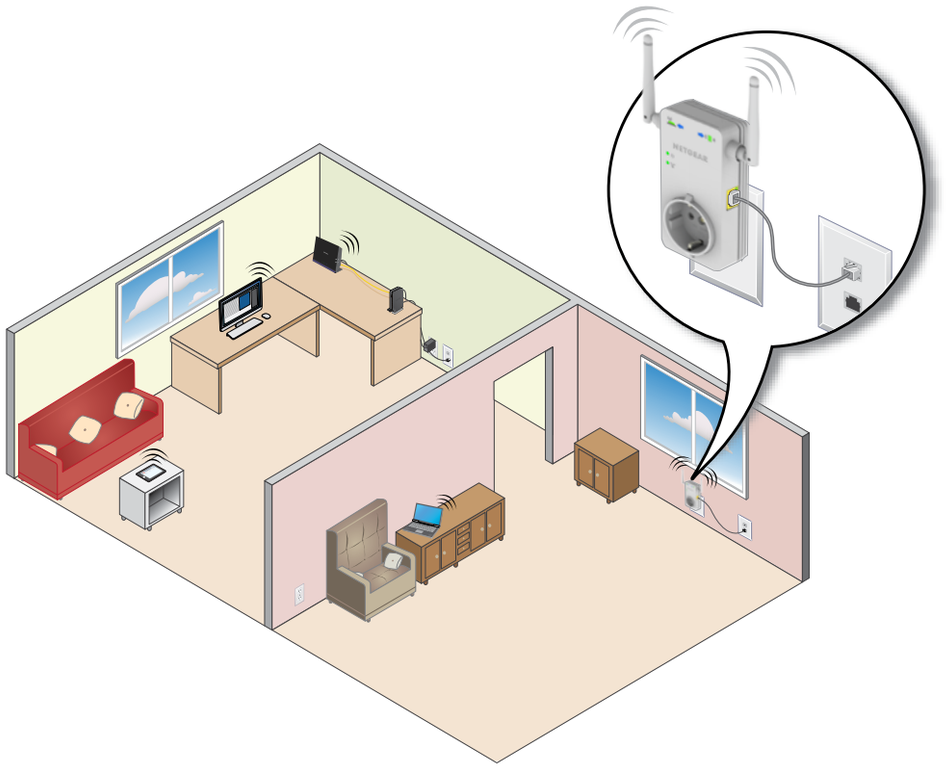
2. Connect the extender to an existing WiFi network.

   For more information, see *Connect to an Existing WiFi Network* on page 5.

3. Plug the Ethernet cable from an Ethernet-enabled device in to the Ethernet port on the extender.

Use the Extender in Access Point Mode

You can use the extender as a WiFi access point, which creates a new WiFi hotspot by using a wired Ethernet connection.



1. Plug the extender into an electrical outlet.

   Wait for the Power LED ● ⏻ to light amber and turn green. If the Power LED does not light, slide the **Device On/Off** switch on the side of the extender to the **On** position.

2. Use an Ethernet cable to connect the extender to the router Ethernet LAN port or the remote Ethernet LAN jack with LAN access.

   The extender joins the LAN and creates a WiFi hotspot.

3. Use a WiFi network manager on a computer or WiFi device to find and connect to the NETGEAR_EXT (SSID) WiFi network.

   After the connection with the computer or WiFi device is established, the Client Link LED lights.

4. Launch a web browser and enter **www.mywifiext.net** in the address field.

   A login screen displays.

5. Click the **NEW EXTENDER SETUP** button.

   The Create Account screen displays.

6. Complete the fields on the Create Account screen and click the **NEXT** button.
7. Select your country or region from the **Regional Settings** menu and click the **NEXT** button.
8. Click the **ACCESS POINT** button.

   The extender checks for an Internet connection.

9. Set the network name (SSID), security option, and password, and click the **NEXT** button.

   Your settings are applied and the extender is ready to be used as an access point.

10. Use a WiFi network manager on the computer or WiFi device to connect to the new access point network.

Repeat this step for all of your computers and WiFi devices.

11. Click the **CONTINUE** button.

    A screen displays that says you successfully created an access point.

12. Click the **NEXT** button.

    The registration screen displays.

13. Complete the registration fields and click the **FINISH** button to complete the setup.
14. If you do not want to register your extender, click the **Skip Registration** link.

    Note that you must register your extender before you can use NETGEAR telephone support.

    The Status screen displays.

Log In to Access Extender Settings

After installation, you can log in to the extender to view or change the extender's settings.

1. Use a WiFi network manager on a computer or WiFi device to find and connect to the new extended WiFi network.

   After the connection with the computer or WiFi device is established, the Client Link LED lights.

2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.
   A login screen displays.
4. Type your email and password and click the **LOG IN** button.
   The Status screen displays.
5. Make any needed changes.

Frequently Asked Questions

You can find more information about your extender in the user manual, which is available at *http://downloadcenter.netgear.com*.

The web browser setup guide keeps asking me for my network password (passphrase) or security key, and I am sure that I entered the correct password. What can I do?

The extender is probably placed at the borderline of the range covered by the router or access point. For more information, see *Place the Extender and Apply Power* on page 5.

If you are using WEP security, make sure that you are typing the network password in the correct field.

My router security is WEP, and I entered the wrong passphrase or security key on the extender. I cannot access the extender anymore. What can I do?

The extender cannot check to see if the WEP passphrase is correct. If you entered the wrong passphrase, your wireless device is not able to get the IP address from the extender. You must reset the extender to its factory default settings to get the IP address back.

How do I restore the extender to its factory default settings?

1. Use a sharp object such as a pen or paper clip to press and hold the **Factory Reset** button on the extender for at least five seconds until the Power LED lights amber.
2. Release the **Factory Reset** button and wait for the extender to reboot.

   The extender resets and returns to the factory default settings.

Can I set up the extender in extender mode if I connect it to the router or access point with an Ethernet cable?

No. The extender is designed to connect wirelessly to the router or access point if it is in extender mode. If the extender is in access point mode, you can connect it to the router or access point with an Ethernet connection. For more information about access point mode, see *Use the Extender in Access Point Mode* on page 12.

I forgot my login email and password. What can I do?

On the login screen, click the **Username & Password Help** link to answer the security questions you set up during the initial setup.

If you forgot the answers to your security questions, do the following to set up your login credentials again:

1. Restore the extender to its factory default settings.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

   The login screen displays.
4. Click the **NEW EXTENDER SETUP** button.

   The Create Account screen displays.

I enabled a wireless MAC filter, wireless access control, or access control list (ACL) on my router. What should I do when installing the extender?

When the WiFi device connects through the extender to your router, the MAC address of the WiFi device shown on the router is translated to another MAC address. If your router's MAC filter, wireless access control, or ACL is enabled, the WiFi device connects to the extender but cannot get an IP address from the extender and cannot access the Internet.

To allow the WiFi device to receive an IP address from the extender and access the Internet, you must provide the translated MAC address to the router.

1. Log in to your router and disable the MAC filter, wireless access control, or ACL.

   For more information about how to disable your router's MAC filter, wireless access control, or ACL, see your router's documentation.

2. Power on the extender and connect all of your WiFi devices to the extender network.
3. Make sure that the Router Link LED remains lit.
4. Log in to your extender:
   a. Launch a web browser.
   b. Enter **www.mywifiext.net** in the address field of the browser.

A login screen displays.

c. Type your email and password and click the **LOG IN** button.

The Status screen displays.

5. Select **Settings > WiFi Settings**.
6. Scroll down and select **Connected Devices**.

   The Connected Devices section displays the MAC addresses and virtual MAC addresses for computers and WiFi devices that are connected to the extender network.

7. On the router, add all of the virtual MAC addresses from your extender to your router's MAC filter table.
8. Enable the router's MAC filter, wireless access control, or ACL.

I am connected to NETGEAR_EXT and launched a browser. Why can't I see the web browser setup guide?

Try these troubleshooting steps:

- Make sure that your computer is set up to use DHCP (most are).
- Make sure that the Client Link LED is green and that you are using a valid IP address.
- Relaunch the web browser and type **www.mywifiext.net** in the address field. Type your email and password and click the **LOG IN** button.

Support

Thank you for purchasing this NETGEAR product. After installing your device, locate the serial number on the label of your product and use it to register your product at *https://my.netgear.com*. You must register your product before you can use NETGEAR telephone support. NETGEAR recommends registering your product through the NETGEAR website.

For product updates and web support, visit *http://support.netgear.com*.

NETGEAR recommends that you use only the official NETGEAR support resources. You can get the user manual online at *http://downloadcenter.netgear.com* or through a link in the product's user interface.

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Compliance

For the current EU Declaration of Conformity, visit *http://support.netgear.com/app/answers/detail/a_id/11621/*.

For regulatory compliance information, visit *http://www.netgear.com/about/regulatory/*.

See the regulatory compliance document before connecting the power supply.

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